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P1-40/I2H/SVB/HI11 - Main switch, P1, 40 A, surface mounting, 3 pole, 1 N/O, 1 N/C, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position, hard knockout version



199923 P1-40/I2H/SVB/HI11

[Overview](#) [Specifications](#) [Resources](#)



## 199923 P1-40/I2H/SVB/HI11

Main switch, P1, 40 A, surface mounting, 3 pole, 1 N/O, 1 N/C, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position, hard knockout version  
Main switch, Product range: Main switch, maintenance switch, Repair switch, Part group reference: P1, Stop Function: Emergency switching off function, With red rotary handle and yellow locking ring, Notes: hard knockout version, Information about equipment supplied: Auxiliary contact or neutral conductor fitted by user., 3 pole, Locking facility: Lockable in the 0 (Off) position, Degree of Protection: IP65, Design: surface mounting, Motor rating AC-23A, 50 - 60 Hz 400 V : P = 22 kW, Rated uninterrupted current: I<sub>u</sub> = 40 A, Standards: IEC/EN 60947, IEC/EN 60204, Switch-disconnector according to IEC/EN 60947-3



- [Delivery program](#)

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### Delivery program

Product range  
Main switch  
maintenance switch  
Part group reference  
P1  
Stop Function  
Emergency switching off function  
With red rotary handle and yellow locking ring  
Number of poles  
3 pole  
Auxiliary contacts  
1 N/O



1 NC

Locking facility

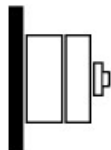
Lockable in the 0 (Off) position

Degree of Protection

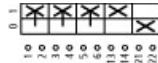
IP65

Design

surface mounting



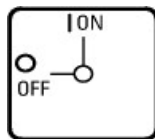
Contact sequence



Switching angle

90 °

Function



Motor rating AC-23A, 50 - 60 Hz [P]

400 V [P]

22 kW

Rated uninterrupted current [ $I_u$ ]

40 A

Note on rated uninterrupted current  $I_u$

Rated uninterrupted current  $I_u$  is specified for max. cross-section.

## Technical data

General

Standards

IEC/EN 60947, IEC/EN 60204

Switch-disconnector according to IEC/EN 60947-3

Climatic proofing

Damp heat, constant, to IEC 60068-2-78

Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature Enclosed

-25 - +40 °C

Overvoltage category/pollution degree

III/3

Rated impulse withstand voltage [ $U_{imp}$ ]

6000 V AC

Mechanical shock resistance

15 g

Mounting position

As required

Contacts

Mechanical variables Number of poles

3 pole

Mechanical variables Auxiliary contacts

1 NO

Mechanical variables Auxiliary contacts

1 NC

Electrical characteristics Rated operational voltage [ $U_e$ ]

690 V AC

Electrical characteristics Rated uninterrupted current [ $I_u$ ]

40 A

Electrical characteristics Note on rated uninterrupted current  $I_u$

Rated uninterrupted current  $I_u$  is specified for max. cross-section.

Short-circuit rating Fuse

50 A gG/gL

Rated short-time withstand current (1 s current) [ $I_{cw}$ ]

640 A<sub>rms</sub>

Note on rated short-time withstand current  $I_{cw}$

Current for a time of 1 second  
 Switching capacity  
 Safe isolation to EN 61140 between the contacts  
 440 V AC  
 Safe isolation to EN 61140 Current heat loss per contact at  $I_b$   
 3.5 W  
 Lifespan, mechanical [Operations]  
 $> 0.3 \times 10^6$   
 Maximum operating frequency [Operations/h]  
 1200  
 AC AC-3 Rating, motor load switch [P] 220 V 230 V [P]  
 7.5 kW  
 AC AC-3 Rating, motor load switch [P] 400 V 415 V [P]  
 15 kW  
 AC AC-3 Rating, motor load switch [P] 690 V [P]  
 15 kW  
 AC AC-3 Rated operational current motor load switch 230 V [ $I_e$ ]  
 30 A  
 AC AC-3 Rated operational current motor load switch 400 V 415 V [ $I_e$ ]  
 30 A  
 AC AC-3 Rated operational current motor load switch 690 V [ $I_e$ ]  
 17 A  
 AC AC-21A Rated operational current switch 400 V 415 V [ $I_e$ ]  
 40 A  
 AC AC-21A Rated operational current switch 500 V [ $I_e$ ]  
 40 A  
 AC AC-21A Rated operational current switch 690 V [ $I_e$ ]  
 40 A  
 AC AC-22A Rated operational current switch 400 V 415 V [ $I_e$ ]  
 40 A  
 AC AC-22A Rated operational current switch 500 V [ $I_e$ ]  
 40 A  
 AC AC-22A Rated operational current switch 690 V [ $I_e$ ]  
 40 A  
 AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 230 V [P]  
 11 kW  
 AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 400 V 415 V [P]  
 22 kW  
 AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 690 V [P]  
 17 kW  
 AC AC-23A Rated operational current motor load switch 230 V [ $I_e$ ]  
 40 A  
 AC AC-23A Rated operational current motor load switch 400 V 415 V [ $I_e$ ]  
 40 A  
 AC AC-23A Rated operational current motor load switch 690 V [ $I_e$ ]  
 20 A  
 Control circuit reliability at 24 V DC, 10 mA [Fault probability]  
 $< 10^{-5}$ , < 1 failure in 100,000 switching operations H-  
 Terminal capacities  
 Solid or stranded  
 1 x (1,5 - 10)  
 2 x (1,5 - 10) mm<sup>2</sup>  
 Flexible with ferrules to DIN 46228  
 1 x (1 - 4)  
 2 x (1 - 4) mm<sup>2</sup>  
 Terminal screw  
 M4  
 Tightening torque for terminal screw  
 1.6 Nm  
 Rating data for approved types  
 Terminal capacity Solid or flexible conductor with ferrule  
 14 - 8 AWG  
 Terminal capacity Flexible  
 14.1 AWG  
 Terminal capacity Terminal screw  
 M4  
 Terminal capacity Tightening torque  
 14.1 lb-in

## Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipation [ $I_n$ ]

40 A

Heat dissipation per pole, current-dependent [ $P_{id}$ ]

3.5 W

## Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as main switch

Yes

Version as maintenance-/service switch

Yes

Version as safety switch

No

Version as emergency stop installation

Yes

Version as reversing switch

No

Number of switches

1

Max. rated operation voltage  $U_e$  AC

690 V

Rated operating voltage

690 - 690 V

Rated permanent current  $I_n$

40 A

Rated permanent current at AC-23, 400 V

40 A

Rated permanent current at AC-21, 400 V

40 A

Rated operation power at AC-3, 400 V

15 kW

Rated short-time withstand current  $I_{cw}$

0.64 kA

Rated operation power at AC-23, 400 V

22 kW

Switching power at 400 V

22 kW

Conditioned rated short-circuit current  $I_q$

80 kA

Number of poles

3

Number of auxiliary contacts as normally closed contact

1

Number of auxiliary contacts as normally open contact

1

Number of auxiliary contacts as change-over contact

0

Motor drive optional

No

Motor drive integrated

No

Voltage release optional

No

Device construction

Complete device in housing

Suitable for floor mounting

No

Suitable for front mounting 4-hole

No

Suitable for front mounting centre

No

Suitable for distribution board installation

No

Suitable for intermediate mounting

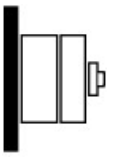
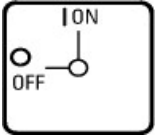
No

Colour control element  
Red  
Type of control element  
Door coupling rotary drive  
Interlockable  
Yes  
Type of electrical connection of main circuit  
Screw connection  
Degree of protection (IP), front side  
IP65  
Degree of protection (NEMA)

Wiring diagram

-   
[115S208-2](#)  
Line drawing  
On-Off Switches With Auxiliary Contacts

Symbol

-   
[000Z428](#)  
Graphic  
Load current switches design
-   
[1150SPC-194](#)  
Graphic

Brochure

- [P1-40 Switch-disconnectors brochure \(SA042012-EN\)](#)  
File  
P1-40 Switch-disconnectors brochure  
<https://www.eaton.com/content/dam/eaton/products/industrialcontrols-drives-automation-sensors/switch-disconnectors-and-cam-switches/t-rotary-cam-switches-and-p-switch-disconnectors/p1-40-switch-disconnectors/eaton-p1-40-switch-disconnectors-flyer-sa042012EN-en-us.pdf>  
(PDF)

Catalog

- [P1-40 Switch-disconnectors \(CA042002-EN\)](#)  
File  
P1-40 Switch-disconnectors  
<https://www.eaton.com/content/dam/eaton/products/industrialcontrols-drives-automation-sensors/switch-disconnectors-and-cam-switches/t-rotary-cam-switches-and-p-switch-disconnectors/p1-40-switch-disconnectors/eaton-p1-40-switch-disconnectors-catalogue-ca042002en-en-us.pdf>  
(PDF)

Product photo

-   
[199923\\_C](#)  
Photo  
P1-40 main switch  
(Web)



[199923\\_R](#)

Photo

P1-40 main switch

(Web)



[Y7-199923\\_L](#)

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